20020624.qrp v02_n596.qrl.20020624

Date: Mon, 24 Jun 2002 19:03:11 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2596

QRP-L Digest 2596

Topics covered in this issue include:

    by "dan wanchic" <wa8vzq@cloudnet.com>
20) [128476] Fox - Summer Hunt Teams.
    by Bruce Rattray <rattray@gpfn.sk.ca>
21) [128477] Re: FD fun,,,,,, and a question
    by Chuck Carpenter <w5usj@9plus.net>
22) [128478] low-power balun?
    by David Hinerman <WD8CIV@worldnet.att.net>
23) [128479] Re: FD fun,,,,,, and a question
    by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
24) [128480] Re: FD fun,,,,,, and a question
    by "Mark J. Dulcey" <mark@buttery.org>
25) [128481] Re: low-power balun?
    by "w8diz" <w8diz@fpqrp.com>
26) [128482] Re: FD fun,,,,,, and a question
    by "John Paul Keon" <jpkeon@nc.rr.com>
27) [128483] Re: FD fun,,,,,, and a question
    by Bill ROWLETT <kc4atu@yahoo.com>
28) [128484] My First Field Day
    by "Tom Curtola" <tcurtola@rogers.com>
29) [128485] RE: low-power balun?
    by "Tracy Markham" <tracy@bytemark.com>
30) [128486] back (3n204 reminder)
    by "Tracy Markham" <tracy@bytemark.com>
31) [128487] Woo Hoo - QRP is IN at the Indy Hamfest
    by "brian" <brian@iquest.net>
32) [128488] Re: FD fun,,,,,, and a question
    by W2AGN <w2agn@w2agn.net>
33) [128489] Re: FD fun,,,,,, and a question
    by Bill ROWLETT <kc4atu@yahoo.com>
34) [128490] Re: low-power balun?
    by "Bob Tellefsen" <n6wg@earthlink.net>
35) [128491] Re: FD fun,,,,,, and a question
    by David Hinerman <WD8CIV@worldnet.att.net>
36) [128492] 2N2-40 and Field Day
    by "Lee Mairs" <lmairs@cox.net>
37) [128493] Re: Radio Shack DSP
    by "George, W5YR" <w5yr@att.net>
38) [128494] Radio Shack DSP addendum
    by "dan wanchic" <wa8vzq@cloudnet.com>
39) [128495] Parts & equipment on the internet ?
    by Rick McKee <kc8aon@juno.com>
40) [128496] Re: Parts & equipment on the internet ?
    by Ed Tanton <n4xy@earthlink.net>
41) [128497] Field Day
    by Steven Weber <kd1jv@moose.ncia.net>
42) [128498] Re: Power Transformer Question
    by Ed Tanton <n4xy@earthlink.net>
43) [128499] Fwd: ARLB038 General Communications Emergency Declaration

---

Date: Sun, 23 Jun 2002 19:10:42 EDT
From: NV9Z@aol.com
To: qrp-l@lehigh.edu
Subject: [128457] NV9Z's Field Day 2002 Report
Message-ID: <a3.2a430b67.2a47af72@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi QRPers!

In just a little over 2 hours of operating, I made 54 QSOs (10, 15 20, CW and SSB QRP+ G5RV and 3 watts). I worked 28 states (including 4 new ones for QRP-WAS), VE6 and NP4.

No way I can complain about that!

Very 72 to all!

Chris NV9Z QRP-L #2370
Hagerstown IN

Date: Sun, 23 Jun 2002 18:07:49 -0500
From: Mark Fields <mark_ke5my@juno.com>
To: qrp-l@lehigh.edu
Cc: fpqrp-l@mpna.com, hqrp@stevens.com
Subject: [128458] OT: H.R. 4720-not the godsend it's held out to be?
Message-ID: <20020623.182733.-226073.0.mark_ke5my@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Dear Friends:
   From what I've been seeing on the three QRP reflectors to which I subscribe, there has been enormous enthusiasm and support for the "Amateur Radio Emergency Communications Consistency Act" (i.e., H.R. 4720). I wish to express an alternative opinion on this bill.
   I live in an apartment complex that seems to be chilly toward outdoor antennas (except, of course, satellite mini-dishes). After reading the many reflector messages as well as the W5YI REPORT, I have concluded that the bill might be of help to homeowners in deed-restricted neighborhoods, but those like myself in apartments will get NO RELIEF WHATSOEVER from the passing of H.R. 4720. We will continue to be subject to the almost-absolute authority of our landlords (and even more so here in the anti-tenant's-rights legal climate of Texas), and trying to invoke such a law will only result in our being told, "That law doesn't apply to us. No outdoor antennas. You don't like that, go live in a cardboard box." We'll wind up continuing to make do with ineffective indoor antennas, or even be unable to get on the air at all.
   So unless I'm mistaken, H.R. 4720 will *not* help me or others in my kind of situation, and so I am not inclined to help get that bill passed.
   Thank you all for your attention.

                          73, Mark, KE5MY

Date: Mon, 24 Jun 2002 10:27:20 +1000
From: "Ian C. Purdie" <ianpurdie@integritynet.com.au>
To: qrp-l@lehigh.edu, fpqrp-l@mpna.com, hqrp@stevens.com
Cc: Mark Fields <mark_ke5my@juno.com>
Subject: [128459] Re: [fpqrp] OT: H.R. 4720-not the godsend it's held out to be?
Message-ID: <3D166768.954278FD@integritynet.com.au>

MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Mark Fields wrote:
>
>   So unless I'm mistaken, H.R. 4720 will *not*
> help me or others in my kind of situation, and
> so I am not inclined to help get that bill passed.

Mark,

I would certainly support it in your situation and I'd be certain to go one step further. Research, if you don't already know, who is sponsoring the bill and tell them how you have been left out, could they broaden the bill to include people people in your situation?

Throwing the baby out with the bath water is no help at all.

When bills come before our legislatures we always assume our representatives should know everything. They don't. Only community consultation helps in improving legislation.

I've said it before and I'll say it again:

"You gotta involve yourself in your democratic processes or forfeit your right to complain".

FWIW - Legislation frequently has unintended side effects simply because "nobody told them".

72/73's

Ian C. Purdie
Budgewoi N.S.W. Australia - Co-ords S33 14', E151 34'
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
http://www.electronics-tutorials.com/

Date: Sun, 23 Jun 2002 20:23:27 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [128460] Tiny tin radios from before us &c
Message-ID: <20020623.202555.-301955.1.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Gang,

Well, thanks to one of my USN buddies, I now have my NAVFAC Ramey list back. And I'm slowly building up the rest of the address data base as time goes on.

Surfin' the web for ex-shipmates/sailors does get a little tedious. So I found this URL that will make all you mint-tin stuffers cry:

http://www.geocities.com/saipan59/clan_radio/foreighn.html

I spent some time today playing with MixW & WO-PSK, among other non-field day follies. I also mowed the lawn & trimmed the hedge & then came inside to collapse with a $75 headache. They dragged me downstairs for supper or I wouldn't have gotten any salt replacement. Which is another story.

MixW has an interesting feature, one that works well with my newly revived computer. Integral sound cards are a pain, however. But with MixW I can set the "output amplitude for this mode" so that it doesn't screech through the speaker (and into the radio) full-tilt bozo. All the other digital stuff I've downloaded works great up to about 2 kHz, at which point it's pretty much "screech through the speaker (and into the radio)" un-changeable. WO-PSK is the worst offender so far. Interesting program . . . it receives/decodes very nicely. I just can't get the output level to play fair.

There were quite a few folks on FD digital. Guess that's a new trend. RTTY was interesting but I tried for no contacts since I'm still dutching up this machine to something I might just understand well enough when it dies again. Think I'll try to copy some utility traffic tonight.

And my eldest came back from his month-and-one-week trip to Europe. Which means he didn't show up here on Father's Day. My two adopted friends/kids from Eastern Turkistan did, however. We went out for real Mexican. Celebrate a brand new PhD with birumka yilitequ . . . which tastes better from sittin' around for five years.

Now to get on the air again . . .

73 ve hos!

Nils

Nils R. Bull Young -- W8IJN -- La Estancia de los Guajolotes Sonrientes
http://w8ijn.tripod.com -- http://members.fortunecity.com/nilsbull
"The island is closer than your memories are." -- Ian G. Bull Young, 15

Feb 2002

Date: Sun, 23 Jun 2002 17:46:25 -0700
From: "Peter Shores" <pshores@socal.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128461] HR4720
Message-ID: <001301c21b18$94a372e0$9e00a8c0@socal.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

To those thinking that since they live in an apartment they should not support the bill since it may not provide a benefit to themselves. Well, do you plan to live in an apartment all your life? Part of the great dream of many others is to have a home of their own but then I guess some people limit themselves and their potential too early in life. And, if not it is your choice.

Peter AD6TN

Date: Sun, 23 Jun 2002 22:02:09 +0000
From: ve3ab@mail.mondenet.com
To: qrp-l@lehigh.edu
Subject: [128462] Bobtail Antenna on FD..some lessons learned.
Message-ID: <200206240203.g5O23X016044@genesis.dmz.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I made a bobtail antenna up for 20 meters and suspended it between trees in the backyard and did some FD operating..unfortunately ..it was not oriented in the best direcions..nor was the ground system very good (i used an aluminum ladder and a 12 ft piece of aluminum tubing as a makeshift ground.)..I guess thats what FD is about anyways..not a professional system by any means.

Anyways..the bobtail did work pretty good..BUT ..was very touchy to
tune up..I used my MFJ945tuner and it tuned on 20 mtrs. Once I found
the right settings..I found I could qsy ..maybe around 50 khz each
side of my tuning spot..not bad! If I was to use a more permanent
installation in the future..i think i would build a dedicated network
for it..or maybe try a quarter wave matching stub and coax hook up.
I fed the bobtail at the far end of the lowest drop wire..HI z point
in all likely hood.--The darn thing worked pretty well on the other
bands as an end fed wire..especially ..it seemed 40 meters.
Ill probably roll the thing up and store it for the next field event.
73 Earl VE3AB

Date: Sun, 23 Jun 2002 23:23:31 -0500
From: Stephen Yates <aa5tb@arrl.net>
To: qrp-l@lehigh.edu
Subject: [128463] Field Day / Casual Antenna Comparison
Message-ID: <KH1ZVSA8A6A05TRIFYS871UYSB09.3d169ec3@AA5TB>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

Unfortunetly, I was unable to attend the usual Lockheed Martin Field Day in Fort Worth this year but did
operate 1B-Battery from Sugar Land, Texas (near Houston) on my own while visiting family. I was happy to work
a lot of familiar calls.

Here's my information:

1B-Battery STX
303 Q's
MFJ-9020 20m CW rig 4W/~1W
20m balun fed Dipole 20' high
20m End-Fed Halfwave Vertical/coupler - no radials (http://aa5tb.home.texas.net/coupler.html)
2W Solar Panel
5A/Hr Gel Cell

I only operated 20m, obviously. 20m was open stateside the entire FD period with very good signals except for
the dulldrums during the middle of the day Saturday. My battery started going dead early Sunday morning and
the smoggy Houston area skies would only allow about 20-40 mA of charging current from my solar panel.
Therefore I had to crank the RF output down to about a 1W to allow me to continue with a somewhat chirpy signal
for the rest of the FD period. I did manage 303 20m CW QSO's after working

everyone I could find. If I hadn't
fallen asleep from about 4 to 6:30 AM and dinker around with my MFJ 6m rig that didn't work I may of had a few
more.

I also used this period to compare antennas once again. The comparisons were all relative using only my
calibrated ear ;-) It is interesting to note that the 20m balun fed dipole up 20' usually out performed the
vertical end-fed halfwave during the daylight hours. After sunset though, everything was much better on the
vertical, even short skip signals! DX signals were much stronger on the vertical as you may expect compared to
the relatively low horizontal dipole. For reference, the feedline loss on the horizontal dipole was measured
at 1.7 dB (100' RG-58) and measured 0.6 dB on the vertical dipole. After using the vertical all night it was
interesting to hear signals once again peak back up on the horizontal dipole after about 11:00 AM. I suspect
the the Sporadic-E conditions that made 6m open after sunset may have required a lower take-off angle for the
same distance that was worked via the F-layers during daylight hours. It was still somewhat of a shock to hear
signals 300 miles away on 20m better on the vertical at night although some of this may have been due to a
particular null in the horizontal dipole's pattern.

The senerio above probably should be kept in the back of one's mind when performing A/B comparisons between two
antennas. In other words, don't take the data gathered a one particular time as an absolute performance
comparison since the tables may turn at different times of the day. This may shed light on why some authors
have given the end-fed halfwave vertical such a bad rap in the past and the "why one antenna may have worked
better at one time yet the other does now" senerio. By the way, I ignored polarization considerations during
these comparisons since the polarization gets "randomized" by the ionosphere anyway and I did "intergrate"
polarization fades in my brain ;-)

The only "new" FD country participant I worked was CO8ZZ. I did also work just for the heck of it RV3ZN,
FM5GU, S55S, and had a nice long ragchew with DF2PY. The end-fed halfwave vertical is quite the DX antenna.
Even though stateside signals stayed strong throughout the night, DX signals would stand out amongst the crowd
when using the vertical.

Oh yeah, I did hear NA1SS working FD from aboard the International Space Station
during two passed but my
little HT couldn't cut the mustard.

Steve Yates - AA5TB

Fort Worth, TX EM12hu
http://aa5tb.home.texas.net/

Date: Mon, 24 Jun 2002 01:48:23 -0400
From: "W2WU" <w2wurjj@verizon.net>
To: <pshores@socal.rr.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128464] HR4720
Message-ID: <000801c21b42$d7a4f9e0$71c2fea9@w2wu>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What should those confined to Senior Centers/Apartments do? The internet is
no replacement to Amateur Radio. It's worse than CB. 73 W2WU
----- Original Message -----
From: Peter Shores <pshores@socal.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: 23 June, 2002 20:46
Subject: HR4720

> To those thinking that since they live in an apartment they should not
> support the bill since it may not provide a benefit to themselves. Well,
do
> you plan to live in an apartment all your life? Part of the great dream
of
> many others is to have a home of their own but then I guess some people
> limit themselves and their potential too early in life. And, if not it is
> your choice.
>
> Peter AD6TN
>
>

Date: Mon, 24 Jun 2002 06:48:05 -0400
From: Ed Lawson <elawson@lawson-philpot.com>
To: qrp-l@lehigh.edu
Subject: [128465] Fw: re: QRP-L
Message-ID: <20020624064805.0cca9f04.elawson@lawson-philpot.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Brad asked me to post this to thee list. Please contact him directly about the K2.
I have seen it and it is nice.

Begin forwarded message:

For Sale: Elecraft K2 in like-new condition loaded for $800 shipped to the lower 48 states. Options include the following: Heil hand microphone, KSB2, KAT2, K160RX, and KAF2. It has the latest firmware. Non-smoker! Guranteed not DOA!!! Constructed by an electronics technician with over 40 years experience. Performs flawlessly. Tnx for the bandwidth. Please direct all correspondence to w1xv@cs.com or call me in NH at 603-224-5737 no later than 0130Z. 72 Brad W1XV

Date: Mon, 24 Jun 2002 07:06:37 -0400
From: Tim ORourke <TORourke@kaiserft.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@lehigh.edu>
Subject: [128466] Ten-Tec Argonaut Station
Message-ID: <0514B74864ACD511934400508BBB5E3415F79A@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

A friend of mine has posted a very nice Argonaut ststion on E-ham. Ad as follows:
Argonaut 509, 10-80 meters + 405 amplifier (50 watts) + 251 power supply for both. Just back from PTO rebuild, alignment and lamp replacement and still in sealed factory cartons. All cables and manuals. $450. shipped UPS CONUS.

Jim, K4SQR@juno.com
Please contact Jim direct Tim O'Rourke KG4CHX

Date: Mon, 24 Jun 2002 07:28:13 -0400
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128467] hr4720
Message-ID: <003301c21b72$3a24b0e0$d2af2341@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

the
air at all.
   So unless I'm mistaken, H.R. 4720 will *not*
help me or others in my kind of situation, and
so I am not inclined to help get that bill passed.
   Thank you all for your attention.

The above quote from Mark fields has got to be the ultimate in selfishness
for a ham!!!
 I don't know how much good it might do for many hams , but I'll vote for
anything that will help even a few of us in this hobby... I started in ham
radio long before there were any such things as " deed restrictions" or
"condos"
 also, how many of us ever stay put for their entire life???
   Have a good day all!!!!
 carl / kz5ca

Date: Mon, 24 Jun 2002 07:28:58 -0400
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@lehigh.edu
Subject: [128468] More FD
Message-ID: <3D16CA3A.19706.3220960@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

This year I set up on the boat with K2, solar panel, and old 486 laptop with
TRlog.

Operated a 1A-Battery, using Club Call W2DWC. 100' Zepp on DK9SQ mast lashed to piling did great. I was surprised how quiet, QRN-wise, 80M was, and how well the 100' Zepp did there. made about 47 QSOs on 80M.

360 Qs altogether. Had to quit about 8AM as I was pooped. Posted some pictures at http://mywebpages.comcast.net/w2dwc/fd2002.html

--

```
  _    _    _    _    _
 / \  / \  / \  / \  / \ John L. Sielke
( W )( 2 )( A )( G )( N ) http://www.w2agn.net
 \_/  \_/  \_/  \_/  \_/ ARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS
```

Date: Mon, 24 Jun 2002 07:14:16 -0600
From: "Al Dawkins" <alk0frp@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128469] 2002 FD Colorado QRP Club
Message-ID: <006e01c21b81$0b344020$0200a8c0@als>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

942 Q's 8500 points less bonus points.
A drop of 3000 ft in elevation from Rampart Range Road in the burning Pike National Forrest. The fire is South and West of our normal site but the area was closed. We moved to Jim KG0PP's property east of Denver.
Three towers. 2A category.
Our plan for 4A was shut down in the move.
Conditions were poor on 15m and not much on 10m
a few very short openings on 6m . That left 20m as the work horse. Our 4 el mono bander was working very well.
80m 37
40m 40
20 572
15 222
10m 3
6 31
2 4
70 cm 2   942 total Q's
Half of our record holding 2A of 2000
40 % of our record 3A of 2001.

Al K0FRP Colorado QRP Club

Date: Mon, 24 Jun 2002 07:26:48 -0600
From: zeekzilch@juno.com
To: cqclist@yahoogroups.com, qrp-l@lehigh.edu
Subject: [128470] Photos from CQC's Field Day
Message-ID: <20020624.072724.-556317.0.zeekzilch@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang;

CQC has a number of photos from this weekend's Field Day posted at:

http://www.cqc.org/gallery/fday2002/index.htm

72s,

Roger
WB0JNR
http://www.DeepEcology.info

-

Date: Mon, 24 Jun 2002 10:33:32 -0400
From: "Ralph Irons" <n7ri@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [128471] FD 2002 in VA

Message-ID: <CHEGLAJDPKLFHIHBBEAHEECCCAAA.n7ri@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Family developments prevented me from joining the Knightlites in the Shining Rock Wilderness area of NC. My DK9SQ mast (minus the top section) was sandwiched between two buildings, supporting a 40m inverted vee. Running my K2 at 1W, I operated 40m SSB exclusively. What a gas! Each new section was a thrill. Managed to work 58 stations in 21 sections, using search and pounce on stations as they first appeared, or after their novelty had worn off. At 1W, the internal battery still measured 12.1 volts after FD was over. (I operated about 8 hours total.)

Ralph N7RI
Charlottesville, VA

Date: Mon, 24 Jun 2002 14:43:42 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [128472] DDS/PIC code/Qualcomm/Analog Devices
Message-ID: <F2582sqT6WD6cfbRYjQ00010755@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

A while ago I mentioned that I had scrounged a Qualcomm DDS demo board out of a piece of electro-junk. The board uses a Q2240I-1N chip (50 MHz 44-pin PLCC) which employs parallel frequency programming (as opposed to serial input like in the AD9835 which has also been mentioned of late on this list). The demo board has dip switches which allow one to set the frequency manually but I wanted a keypad interface so whipped together some assembly code (with judicious incorporation of routines written by others more capable than myself - but with proper credits given) for a PIC16F84A microcontroller. If anyone wants a copy of the code, let me know. It is certainly not optimized nor even well written (what little I have learned of assembly language is from the datasheets and by example) but I know that it works.

The program scans a 4X3 keypad ("*" used to clear and begin numerical entry and "." used to send the number to the DDS board), accumulates a number displayed as a decimal on an 8X2 LCD display and converted to a 3 byte digital number stored in three registers, and then upon proper command outputs the number to a set of three shift registers and thence to the DDS board to program the DDS chip. With appropriate modification the code could

work with other LCD displays, keypads and DDS chips. I have a couple of the AD9835s and so will probably eventually rewrite this code to drive that chip.

Regards,

Brad KG6IOE

Date: Mon, 24 Jun 2002 09:00:43 -0600
From: "Francis Callahan" <colcal@srv.net>
To: <carlseye@tampabay.rr.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128473] Re: hr4720
Message-ID: <000b01c21b8f$eaea6ba0$cbdd070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sounds like Mark Fields has his head where the sun don't shine Any law that will help even the smallest of ham groups is worth the effort 72 Cal KF7ET
----- Original Message -----
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, June 24, 2002 5:28 AM
Subject: hr4720

> the
> air at all.
>   So unless I'm mistaken, H.R. 4720 will *not*
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>   Thank you all for your attention.
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> radio long before there were any such things as " deed restrictions" or
> "condos"
> also, how many of us ever stay put for their entire life???

>   Have a good day all!!!!
> carl / kz5ca
>
>

Date: Mon, 24 Jun 2002 10:09:53 -0500
From: "pschweit" <pschweit@mninter.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128474] FD fun,,,,,, and a question
Message-ID: <003701c21b91$332b9fa0$f4e7add1@pschweit>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I ran the GOTA station for the MN QRP club. Was quite successful with an 817
on 10 meter ssb. Used a monoband dipole to good effect.

A question did come up. How does one achieve 31A for a club operation.
Please advise.

de KA0PGQ

Date: Sat, 15 Jun 2002 10:39:45 -0500
From: "dan wanchic" <wa8vzq@cloudnet.com>
To: <qrp-l@lehigh.edu>
Subject: [128475] Radio Shack DSP
Message-ID: <000d01c21483$1c6d6d80$04f1ddcc@wa8vzq>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello to the group,

I would like to raise center freq of the bandpass in the CW mode on my
Radio Shack DSP filter.

I don't want to reinvent the wheel. Has anyone in the group modified theirs
to do the same?

Regards

Dan
St.Cloud, MN

Date: Mon, 24 Jun 2002 09:28:02 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
        Low Power Group <qrp-l@lehigh.edu>
Subject: [128476] Fox - Summer Hunt Teams.
Message-ID: <Pine.LNX.4.33.0206240922430.30108-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The NE-TX Tornados -
W5YR - George
W5TB - Doc
NM5M - Eric
K5DW - Don
KD5KXF - Mike

The Raiders of the Lost RF -
Rob - VE6JAZ
Dan - VE6EX
Fred = VE3FAL
Earl - VA6RF
Bruce - VE5RC

...anymore Teams for the hunt?

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
            - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Mon, 24 Jun 2002 10:27:20 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: pschweit@mninter.net, qrp-l@lehigh.edu
Subject: [128477] Re: FD fun,,,,,, and a question
Message-ID: <3.0.2.32.20020624102720.007db1f0@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

You must have worked the same station we did. Had one even bigger a couple
of years ago.

If you put one station on CW and another on SSB on every band and then have backups for those, you can do it. That's HF bands through VHF, UHF, SHF and maybe even higher bands combined. Also include stations for satellite and various digital modes. You do have to watch that you don't have two stations operating on the same band at the same time.

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP http://www.netxqrp.org

----

Date: Mon, 24 Jun 2002 11:34:11 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [128478] low-power balun?
Message-ID: <5.1.0.14.1.20020624113158.00a58e50@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

How much power could a 1:1 balun wound on a single FT-50-43 core handle? A half watt?

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
----
Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 24 Jun 2002 11:34:15 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: "pschweit" <pschweit@mninter.net>, qrp-l@lehigh.edu
Subject: [128479] Re: FD fun,,,,,, and a question
Message-ID: <200206241534.g5OFYRqd016986@rhombus.bright.net>

> A question did come up. How does one achieve 31A for a club operation.
> Please advise.

>

A phone, cw, and data transmitter on every band 160 m up thru 440 (10
bands) will put you in the 30A class One more TX on one of the higher
bands will make 31....

73 - Bill - N8ET
Kanga US
kanga@bright.net
http://www.bright.net/~kanga/
419-423-4604

Date: Mon, 24 Jun 2002 11:47:16 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: pschweit@mninter.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128480] Re: FD fun,,,,,, and a question
Message-ID: <3D173F04.1090800@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

pschweit wrote:
> I ran the GOTA station for the MN QRP club. Was quite successful with an 817
> on 10 meter ssb. Used a monoband dipole to good effect.
>
> A question did come up. How does one achieve 31A for a club operation.
> Please advise.

Careful organization and lots of people.

First, how do you manage 31 transmitters?? Well, there are many ham
bands (160, 80, 40, 20, 15, 10, 6, 2, 220, 440, 915, 1200, 2300, and
higher), and three modes (CW, voice, RTTY/digital). You're only allowed
one transmitter per band/mode, so you obviously have to cover 31
combinations. Well, actually 32, because you get one VHF/UHF station for
free (rule 4.1.2). So, suppose that you have three stations each on the
five HF bands; you're already up to 15. Add another three stations for
each of the five most popular VHF and UHF bands, and you're up to 30.
The other two can come from some combination of 160, 915, or the bands
above 1200 MHz.

Keeping them from interacting with each other is another problem. On the
HF bands, you need careful selection of radios (you want rigs with
excellent phase noise performance; older non-synthesized equipment might
be good choices, too), bandpass filters for your rigs, as much physical

separation of antennas as possible, and some willingness to accept degradation of your receivers from the other stations. (Even with the best possible equipment, the presence of two other transmitters on the same HF band will probably have some effect on your ability to hear weak signals.) The huge megastations are about the challenge of putting that many signals on the air, not about maximizing your score. On VHF and above, it's easier to get enough antenna separation to keep the stations from interacting, since the antennas are smaller, but make sure to point the beam of one station away from the antenna of another!

If your club is big enough to field the 100 people or thereabouts that you'll likely need for a 31A station (remember, you also have to set up all that stuff), coming up with enough radio gear probably isn't a problem. Finding a large enough power source might be. It helps if you have connections with local disaster agencies, which may be able to provide a BIG generator or two. I haven't heard of anyone trying a battery or solar powered megastation yet.

No, I've never been involved in a station on that scale. I'm sure somebody who has will come in with more advice.

Date: Mon, 24 Jun 2002 12:03:41 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128481] Re: low-power balun?
Message-ID: <002701c21b98$b6198560$39d81b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi David et al...

I built up a 1:1 balun (50 ohms in and 50 ohms out) using a type 43 material binocular balun with 2 turns on the primary and 2 turns on the secondary. I ran 5 watts into it with a 50 ohm dummy load and measured the power out from 160 to 10 meters. What I found was about 4.5 watts output from 160 to 10 average. That amounts to about 0.5 watts of heating in the ferite toroid.

What I don't know is how much heating is allowed for type 43. I think for QRP, I would use TWO FT50-43 toroids in my balun.

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26
FP#-1 http://home.cinci.rr.com/w8diz & http://kitsandparts.com

----- Original Message -----
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, June 24, 2002 11:34 AM
Subject: low-power balun?

Folks,

How much power could a 1:1 balun wound on a single FT-50-43 core handle? A
half watt?

Dave

Date: Mon, 24 Jun 2002 11:18:39 -0400
From: "John Paul Keon" <jpkeon@nc.rr.com>
To: <pschweit@mninter.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: "Randy Hargenrader" <randyh@harksystems.com>,
        "Ralph Irons" <irons@csvrgs.k12.va.us>,
Subject: [128482] Re: FD fun,,,,,, and a question
Message-ID: <004a01c21b92$6c448440$6401a8c0@nc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We got that one too, and wondered about it, and
asked the station about his NR several times and he
kept saying 31A.....??????
Anyone have a reply for that one?
John Paul, Raleigh, NC [AB4PP]
http://www.knightlites.org
"We all take different paths in life, but no matter where
we go, we take a little of each other everywhere."
----- Original Message -----
From: "pschweit" <pschweit@mninter.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, June 24, 2002 11:09 AM

Subject: FD fun,,,,,, and a question

> I ran the GOTA station for the MN QRP club. Was quite successful with an
817
> on 10 meter ssb. Used a monoband dipole to good effect.
>
> A question did come up. How does one achieve 31A for a club operation.
> Please advise.
>
> de KA0PGQ
>
>

Date: Mon, 24 Jun 2002 09:17:11 -0700 (PDT)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: pschweit@mninter.net,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128483] Re: FD fun,,,,,, and a question
Message-ID: <20020624161711.71771.qmail@web14203.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

We worked one that was 41A, Takes carefull planing,
and good band pass filters.

73, Bill kc4atu

Date: Mon, 24 Jun 2002 12:20:30 -0400
From: "Tom Curtola" <tcurtola@rogers.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128484] My First Field Day
Message-ID: <002f01c21b9b$0fa8d980$f44a9c18@bloor.phub.net.cable.rogers.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well I set up my station as 1B - Battery w/ solar cell charging. I just went out to the back yard and strung a 40m dipole and used
my antenna tuner to get on 20M. I waited for the witching hour 1800UTC and then immediately answered a CQ FD. He heard me and was
a 3A ENY. After that I tried to answer more for a bout 20 minutes and then lost interest. Guess I'm not into contests.

So here are the points:

1 QSO CW = 2 points
Multiplier for QRP non-grid power = 5

2X5=10 points

Bonus points

100% Emergency Power:
300 points

Public Location:
(Neigbour kept looking over the fence to see what I was up to... felt like a public location)
100 points

Public Information Table:
(hard cover copy of ARRL manual on table beside me, and distributed to public when thrown at neighbour whom kept bothering me to
"turn that racket down")
100 points

Message Origination to Section Manager:
(Neighbour pulled out my guy wire causing antenna to fall and short on Mains, sparking a fire, sent a NTS message to ARES for
assistance from Fire Department)
100 points

Message Handling:
(Sent NTS message to ham down the street telling him to "F*** Off" as he was QRM'ing me)
10 points

Site Visitations:
(Neighbouring ham then called Industry Canada where an official came to revoke my license)
(Other neighbour hit in head with ARRL manual called police to complain about noise and possible assault charges)
100 points

Non Traditional Mode Demonstrations:
(Fired up QRO rig and linear to "blow-out" neighbouring Ham's rig)
100 points

Satellite QSO:
(International Space Station reported they could now see the smoke caused by the massive fire that was now getting out of hand)
100 points

Media Publicity:
(Newspaper and T.V. crews arrived during the melee - film at 11:00)
100 points

Missed the bonus points for copying the W1AW Bulletin as I was being hauled off to jail right in the middle of it.

So a total of 1,020 points. All in all, not a bad FD score for one station worked!!!

Tom
VA3TY
tcurtola@rogers.com

Date: Mon, 24 Jun 2002 09:26:13 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>, <w8diz@fpqrp.com>
Subject: [128485] RE: low-power balun?
Message-ID: <GNEOLGDJDOPEALHJMKLCKEDOCFAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Try the same designs using type 61 materials - we use those in the commercial applications. The type 43 material has a much higher permeability and loss factor - therefore much lower efficiency.

10% loss is way high for what you should be able to acheive with your design. Using the 61 material should get you another 5% at least.

I still would suggest you attempt a 'transmission line' type of transformer

rather than a primary / secondary approach ...

Tracy N4LGH

<< snip>>
I built up a 1:1 balun (50 ohms in and 50 ohms out) using a
type 43 material binocular balun with 2 turns on the primary
and 2 turns on the secondary. I ran 5 watts into it with a 50
ohm dummy load and measured the power out from 160 to 10 meters.
What I found was about 4.5 watts output from 160 to 10 average.
That amounts to about 0.5 watts of heating in the ferite toroid.

What I don't know is how much heating is allowed for type 43.
I think for QRP, I would use TWO FT50-43 toroids in my balun.

Date: Mon, 24 Jun 2002 09:27:23 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [128486] back (3n204 reminder)
Message-ID: <GNEOLGDJDOPEALHJMKLCAEDPCFAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm back from Florida, those of you who wanted some of the 3N204's remind me
and I'll get them out to you, along with my address ...
Tracy N4LGH

Date: Mon, 24 Jun 2002 12:39:46 -0400
From: "brian" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "pigs" <fpqrp-l@mpna.com>
Subject: [128487] Woo Hoo - QRP is IN at the Indy Hamfest
Message-ID: <002801c21b9d$c49b4240$3d05080a@BM17711>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

http://www.indyhamfest.com/links/forums.htm

I like it.

As far as I can remember, this is the FIRST time ever for QRP at Indy Hamfest.

If you'll be in the area, drop in and say howdy!

73 de KB9BVN

Date: Mon, 24 Jun 2002 12:48:27 -0400
From: W2AGN <w2agn@w2agn.net>
To: Bill ROWLETT <kc4atu@yahoo.com>,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128488] Re: FD fun,,,,,, and a question
Message-ID: <3D17151B.24186.446A413@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 24 Jun 2002 at 9:17, Bill ROWLETT wrote:

> We worked one that was 41A, Takes carefull planing,
> and good band pass filters.
>
> 73, Bill kc4atu
>

A lot of this is just a questionable attempt at being "1st in Category" Calim a ridiculous category, and win it.

Maybe next year I'll operate 65A...single op.

--
  _   _   _   _   _
 / \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) http://www.w2agn.net
 _/ _/ _/ _/ _/ ARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Mon, 24 Jun 2002 10:01:10 -0700 (PDT)
From: Bill ROWLETT <kc4atu@yahoo.com>

To: W2AGN <w2agn@w2agn.net>,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128489] Re: FD fun,,,,,, and a question
Message-ID: <20020624170110.9381.qmail@web14203.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The 41A was a 1 call, up there north of you John. If
the old gray matter remembers right, they have been
written up in QST and have a video out explaning how
it is done.

My question is, why bother but than many ask why we do
QRP. Same sort of thing I quess. What ever floats your
boat.

Take care and have fun doing your thing.

7s, Bill kc4atu

Date: Mon, 24 Jun 2002 10:15:09 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [128490] Re: low-power balun?
Message-ID: <MABBJOEABOILMKCJCLFCOEIHDGAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave
>From the book on baluns, I understand that the core won't actually have to handle much power,
IF the two bifilar wires represent the proper transmission line impedance, in your case probably 50 ohms. As long as the wires are adequate for 5w power, and you can get enough turns on the toroid core, it should work. I think you would find it necessary to stay at 40m or above, though.

The inductive reactance of the windings should be around 250 ohms at the lowest band you expect to use the balun on. That's why I doubt it would be suitable for 80m or 160m.

Give it a try and let us know your results.

73, Bob N6WG

Date: Mon, 24 Jun 2002 13:11:13 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [128491] Re: FD fun,,,,,, and a question
Message-ID: <5.1.0.14.1.20020624130804.00a6f870@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:48 PM 6/24/2002 -0400, you wrote:
>On 24 Jun 2002 at 9:17, Bill ROWLETT wrote:
>
> > We worked one that was 41A, Takes carefull planing,
> > and good band pass filters.
> >
> > 73, Bill kc4atu
> >
>
>A lot of this is just a questionable attempt at being "1st in
>Category" Calim a ridiculous category, and win it.
>
>Maybe next year I'll operate 65A...single op.

You know, with the right software and networked computers you could do it - have a computer per rig that captures the call from each station that calls you, routes it to your central terminal where it plays / displays it to you, and sends your response back out.

I -assume- robot stations are not allowed. Otherwise it'd be easy.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

---

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 24 Jun 2002 13:15:31 -0400
From: "Lee Mairs" <lmairs@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128492] 2N2-40 and Field Day
Message-ID: <018d01c21ba2$bf0bd1f0$6401a8c0@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Although I had to spend almost every waking moment either cutting grass or fixing implements designed to help me cut grass in WV this weekend, I did get to spend some time with my 2N2-40 on Field Day. I only had about three hours total time, but I went upa and down the 40 meter band S&P'ing from signal to signal.

What a marvelous radio! WIth the W3NQN passive audio filter, I was able to separate all the big guys crowded around 7.025. I don't thnk more than two calls were ever required ti get their attention (altho many, many repeats were requested by me as a result of rusty ears. The antenna was a Carolina WIndom 160 barely 22' up at the feed point and about 40' at the ends (ground slopes dramatically!).

Great fun and a satisfying way to test a radio and its antenna system. If only there was a contest where you had to give (honest) signal reports...

Thanks to Jim Kortge for designing this wonderful little radio. If you ever though about building a scratch-built radio, this is the one. THere is a great support group available on the 2n2-40 web sight as well as on this mailing list.

73 de Lee, KM4YY

Date: Mon, 24 Jun 2002 12:33:12 -0500
From: "George, W5YR" <w5yr@att.net>
To: wa8vzq@cloudnet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128493] Re: Radio Shack DSP
Message-ID: <3D1757D8.928C1383@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Dan, it the RS unit is truly a DSP processor, it is likely that there is no
way to change the center frequency if the code does not already support
such a change.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

dan wanchic wrote:
>
> Hello to the group,
>
> I would like to raise center freq of the bandpass in the CW mode on my
> Radio Shack DSP filter.
>
> I don't want to reinvent the wheel. Has anyone in the group modified theirs
> to do the same?

Date: Sat, 15 Jun 2002 13:39:56 -0500
From: "dan wanchic" <wa8vzq@cloudnet.com>
To: <qrp-l@lehigh.edu>
Subject: [128494] Radio Shack DSP addendum
Message-ID: <003701c2149c$65733d20$07f1ddcc@wa8vzq>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all who have replied....

The consensus seems to be that I would need to rewrite
the code for the DSP filter....I'm not much on trying to
rewrite someone elses computer code....
that stuff makes my brain hurt any more ;-))

I was hoping that it worked similar to my NIR that uses an A/D
converter in front of the DSP chip to allow for adjusting the
center freq....the pots are read by the A/D and then the output
controls the filter....all difficult to tell without a schematic or even a
block
diagram....was hoping that the RS unit worked similar but using fixed

resistors.....

Obviously if it can't be easily modified...onward to a different idea....

I should have supplied this background data earlier....

Lately I've been bitten by listening for low freq aviation beacons....
they use AM and the ident freq is centered around 1020 Hz....
I don't exactly remember the Radio Shack center freq but it is
something on the order of 800 Hz

Could use my NIR or an old Ramsey switched cap filter but both knobs
to tweak and I wanted something simpler....plus the RS unit has a built in
speaker....

I used to have a WWII surplus range filter....centered on 1020 Hz....but
that
was about 30 years ago...:-((

Thanks again

Dan

-- -- -- -- -- -- -- WA8VZQ -- Since 1967 -- -- -- -- -- -- -- -- --
Federal Aviation Administration -- -- Electronics Technician
ex-Nuclear Emergency Search Team (NEST) 1977 - 1981
-- -- -- NEST Three Mile Island Response Team -- -- --
-- -- ex-HFer @ ACA-15, WAR-46, KAL-24, KZ5VZ -- -- -- --

Date: Mon, 24 Jun 2002 14:23:15 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@lehigh.edu
Subject: [128495] Parts & equipment on the internet ?
Message-ID: <20020624.142319.3390.0.kc8aon@juno.com>

Gang,

 I'll not mention names or web sites, but has anyone on the list
contacted any web sites that offer either used radio equipment or surplus
parts and didn't get a reply back ? Recently, I e mailed 2 separate site
owners with queries about equipment and parts they offered for sale and
neither one has replied back. In fact, I have e mailed both of them
twice and still no reply. Just wondering if anyone else has had similar

experience.

Rick McKee, KC8AON
Willow Wood, Ohio
QRP - Do more with less !

Date: Mon, 24 Jun 2002 14:34:59 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: kc8aon@juno.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128496] Re: Parts & equipment on the internet ?
Message-ID: <5.1.1.6.2.20020624143317.0c86cbd0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Well Rick... it IS the busy season for hamfests and FD and the like. I didn't hear back from "Baggy Bob" about surplus SMT stuff... but I'll email again in a while.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Mon, 24 Jun 2002 15:18:46 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [128497] Field Day
Message-ID: <3.0.6.32.20020624151846.007ab100@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

We drove down to Connecticut with AA1MY to help out his old club's effort. Was kinda interesting, as it was the first time I ever did anything with a real club. But I'll tell ya, never gonna do anything with a set up that uses a generator again. Hearing that thing drone on for 24 hours gets to you and having to shut down and fill it with gas every four hours is a pain. All that to run two 100 watt rigs and some old 486 computers. Could have done just as well cutting the power back to 50 watts running on batteries and some laptops. Which is what we think we'll do locally next year around here. Or just run QRP CW.

But we did real well on 15 M with Seab's Lazy H antenna. 15 ended up so good, spent a lot of time there and ended up making many more contacts on 15 then 20. All SSB. They weren't set up well for CW, so we didn't do much of that. I even made 18 Q's on 160M about 1 AM with thier 600 foot loop. That was fun!

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
http://www.qsl.net/kd1jv/

Date: Mon, 24 Jun 2002 15:10:04 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: mck20@yahoo.com,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128498] Re: Power Transformer Question
Message-ID: <5.1.1.6.2.20020624143656.0c86d900@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Claude... I'll tackle this one. First, consider there is one absolute involved. The VA rating of the transformer's primary. You can count on it being approximately the sum of the VA ratings of the secondaries-although there are efficiency differences, etc. it's still close enough. Then you have to consider that the 800VCT secondary was designed with 30mA in mind.

Not 60mA. In a full wave CT circuit, it'd be using only one side at a time. Do I THINK you can use it for 60mA? Probably. I'd even say VERY probably. The wire size limitations are just not serious enough to worry about that extra 30mA on that secondary winding.

As for your second question... you MAY not have to bother. If you use a silicon rectifier, remember you'll get 1.4 x that 400 VAC and then some. With older circuits, the tube rectifier dropped a good bit, then, if you still had too much, you'd use choke-input to drop it a bit more. If you NEEDED some, capacitor input. Since you most likely don't plan on choke input (you don't have a filter choke by any chance do you?) you're really going to get over 565VDC and probably a bit more under low load. That means you want to drop... say 150V at 0.06 mA... or 2500 ohms (R = E/I) at 9W (I (SQ) * R). I'd personally use at least 1 1/2 times that power rating, so 15 or 20W. I suspect you're going to actually have to drop more than 150V... but one way to help with that is to put some-or all-or the resistance BEFORE the filter cap (but after the rectifier.) That'll tone down some of the 'kick' the capacitive input filter gives.

Finally, I don't think a 6L6 would get overly excited (pardon the possible-if somewhat obtuse-pun) about 500V, for example, although the tube manual lists it at 360V maximum. I'd TRY to get it down to say 350 volts... but be quite satisfied at anything below 400V. That's NO-LOAD voltage however... and assumes you have more than one 6L6!!!

Don't forget to specify the voltage rating of your electrolytics at 20% more than your wildest speculation. And don't forget some kind of bleeder resistor. There are nasty surprises to be had for not draining off the voltage after shutting the thing down to work on it.

Finally, one sure fire way to be certain your transformer is being abused is if you cannot keep your hand on it after running your transmitter for a while. It won't prove anything about an individual winding, but it shows that the overall power rating of the primary is probably fine, if you can hold it on there. This does not count for EFJ Rangers... hottest running rigs I ever saw.

73 Ed Tanton N4XY <n4xy@earthlink.net>

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Marietta, GA 30068-3466

website: http://www.n4xy.com

Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Mon, 24 Jun 2002 15:30:15 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [128499] Fwd: ARLB038 General Communications Emergency Declaration
Message-ID: <5.1.1.6.2.20020624152959.0c86a3d0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>Subject: ARLB038 General Communications Emergency Declaration
>Date: Mon, 24 Jun 2002 13:58:22 -0400
>To: n4xy@earthlink.net
>CC: Subscribed ARRL Members: ;
>From: "ARRL Web site" <memberlist@www.arrl.org>
>
>SB QST @ ARL $ARLB038
>ARLB038 General Communications Emergency Declaration
>
>ZCZC AG38
>QST de W1AW
>ARRL Bulletin 38 ARLB038
> From ARRL Headquarters
>Newington CT June 24, 2002
>To all radio amateurs
>
>SB QST ARL ARLB038
>ARLB038 General Communications Emergency Declaration
>
>On June 24, 2002, under the authority of Section 97.401 of the
>Federal Communications Commission's Rules and Regulations [47 C.F.R.
>Part 97] a General Communications Emergency is declared to exist in
>Arizona requiring the protection of amateur emergency communication
>frequencies.
>
>Amateurs are required to refrain from using 7265 kHz (daytime), and
>3990 kHz (night time) plus or minus 3 kHz unless they are taking
>part in the handling of emergency traffic. This order is effective
>immediately until rescinded but may be as long as 14 days.

>
>Arlan K Van Doorn, Senior Advisor for Public Safety Enforcement
>Bureau, Federal Communications Commission, Washington, DC.
>
>W1AW will discontinue its 3990 kHz phone bulletin, transmitted daily
>at 0145z, until the declaration is rescinded.
>NNNN
>/EX

73 Ed Tanton N4XY <n4xy@earthlink.net>

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Marietta, GA 30068-3466

website: http://www.n4xy.com

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Mon, 24 Jun 2002 16:03:54 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [128500] field day
Message-ID: <5.1.0.14.1.20020624152731.00a61b60@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

I've seen several people mention using computers at Field Day. I'm curious - are they really worth the trouble to lug out to the field? I haven't worked a Field Day in about 23 years, and the old Ohio Scientific C1P we used then was definitely not worth the effort.

I confess I have a professional reason for asking. My company's marketing organisms are always looking for laptop apps for people to use with our products (electricity meters), yet the guys who would be using these apps tell me they don't like using the computers because of weight, battery life, rain, etc.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
---
Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 24 Jun 2002 16:43:25 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: WD8CIV@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128501] Re: field day
Message-ID: <3D17846D.2020805@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

David Hinerman wrote:
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> marketing organisms are always looking for laptop apps for people to use
> with our products (electricity meters), yet the guys who would be using
> these apps tell me they don't like using the computers because of
> weight, battery life, rain, etc.

If you're with a big Field Day station with non-battery power available, yes, yes, a thousand times yes. They make logging a LOT easier. Use laptops; they won't crash if the generator does (the battery acts as a built-in UPS), they're not fussy about power fluctuations, and they're easier to carry. Laptops don't use enough power to make much of a dent in the power budget of a typical non-QRP Field Day station, so that's not an issue.

If you're doing a completely battery-powered operation in a remote location, it's tougher. You'd have to carry along a LOT of batteries to power even a laptop for 24 hours; desktop systems are right out. For

example, the batteries in my Dell are good for a bit over 3 hours each; I'd need 8 of them to get through Field Day, and they cost about $100 each. (Doing the math shows that the computer uses about 1.5 amps at 11 volts.) A less expensive alternative would be to rig up something with a large gel-cell, but the battery for the computer would be larger than the battery for the radio. By the way, if you're choosing a computer specifically for field logging use, one of the new systems using a Transmeta Crusoe processor might be a good bet.

A contest logging program for the Palm would also be a possible winner if you used an external keyboard. You'd want a Palm or similar computer with a good backlit display, because the lighting at Field Day stations is usually poor; the backlit color ones are best, but you would need a charger for those, because they ones I'm familiar with use internal LiIon batteries. And you need to be able to connect the charger and the keyboard at the same time, something that you can't do with my Visor Prism.

By the way, I've heard that the ruling is that computers must be powered using emergency power if they are used to control the radio, but not if they are only used for logging. So if you're in a location where commercial power is available, and being less than perfectly pure doesn't bother you, you don't have to power the computers (or the station lights, for that matter) from batteries or a generator. But I do not speak for the ARRL; I may have heard this wrong, or they may have changed their minds about it.

Date: Mon, 24 Jun 2002 17:01:17 EDT
From: K5BDZ@aol.com
To: WD8CIV@worldnet.att.net, qrp-l@lehigh.edu
Subject: [128502] Re: low-power balun?
Message-ID: <ba.27e328fe.2a48e29d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 06/24/2002 10:45:19 AM Central Daylight Time, WD8CIV@worldnet.att.net writes:

> Folks,
>
> How much power could a 1:1 balun wound on a single FT-50-43 core handle? A
> half watt?
>
> Dave
>

A broad statement answer: 10 watts CW "normal" and more in some cases.

Bill K5BDZ

Date: Mon, 24 Jun 2002 17:13:52 -0400
From: "John P. Cummins, Sr." <jpcummins@charter.net>
To: unlisted-recipients:; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128503] Re: field day
Message-ID: <3D178B90.98CD7B1E@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You are correct about "logging" computers being on commercial power.

However.. if you get a reasonably sized auto/marine battery and an
inverter.. you can run a laptop with it's AC supply at least as long as
FD is going to last. A couple of our guys did that including the PSK31
station.

Pickett, AD4S

"Mark J. Dulcey" wrote:
>
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> changed their minds about it.

Date: Mon, 24 Jun 2002 22:07:11 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-l@lehigh.edu, elecraft@mailman.qth.net
Subject: [128504] FD 2002
Message-ID: <5.1.0.14.0.20020624212936.0234d750@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

After pestering the local club about scoring advantage of running QRP
Battery for a year or more Tuesday evening prior to FD the club's main SSB
operator after saying there was no way he would go QRP challenged me. I
jumped at the chance. Last year I ran the same setup as this year, but we
all used my call. I looked at the scoring afterwards and it was clear I
had amassed more points as a QRP battery station than had the entire club
as a QRO station - even when they counted my QSOs in the total.

I signed 2A for the event, but never ran more than one transmitter. Seems no one else ran CW. It turned out the be the biggest club showing for a number of years. The other fellows put four stations on the air. Three ran SSB and one ran digital. They use two vertical and two G5RVs. I used two doublets fed with ladder line. They variously signed 3A and 5A. We don't treat FD seriously as a contest most of the time. It is a time to go out have fun and eat.

But I am waiting for them to total their scores to show them that I beat them hands down. They spend too much time away from the rigs. If I ever see their logs I'll report on the results.

My station was the K2 (#665). If you worked WD3P you worked me. If you worked W3SMR you helped the competition. I ran a 44 ft and a 66 ft ant fed with ladder line. My biggest error was letting the ladder line lay on the ground. The LDG tunner didn't like it either with the 4:1 or the 1:1 balun. But I wasn't smart enough to get them off the ground. As a result the K2 just refused to put out more than about a watt on 80 meter. It tuned up just fine at home afterward into the dummy load. So it was not the rig that was the problem.

Take this year was down about 15-20% percent from last year with 237 valid QSO. Most of the loss was caused by not being able to effectively use 80 meters. Here in the east 40 meters was the band of choice where I racked up 168 QSO. That was helped along by an hour long run of about 60 QSOs Saturday afternoon. I sat on 7.004 for at least an hour before I got chased off the frequency. Never let it be said that running QRP (I was running 2-3 watts) you can't hold a frequency. I picked up WQ4RP and N3EPA during that time. I had some trouble working on 20 meters as the other four nearby stations seemed to congregate there. The digital station operator said that was about the only band he could find any activity on.

The power supply was two 5 AH gel cells charging from two 5 Watt solar panels. They were charged by solar power prior to the contest. So except for three QSOs when I was searching for reasons for the low power on 80 meters late Saturday night I was totally solar. The test battery for those three QSOs was not solar charged. The batteries held up real well. Sunday morning they read about 12.1 volts. Also drawing current was the LDG tuner - I was not using the one with the latching relays - that one seemed to have more trouble matching the antennas than did the older model.

I had fun - camped out for the night - my youngest insisted on coming along and camping as well - she is only 12. WX was perfect Saturday - got up to 90 Sunday. But it was bright and sunny both days without a hint of rain or thunderstorms. I've already planed for how I'm going to keep the ladder line off the ground next year.

73 de Larry.....WD3P in MD
http://www.wd3p.net/

Date: Mon, 24 Jun 2002 18:41:39 -0400
From: "John Dorson" <jdorson@worldshare.net>
To: <lejek@erols.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128505] Re: FD 2002
Message-ID: <001501c21bd0$52821700$40ede143@atwork>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That's the way to go Larry.

Great story.

John K2JHU..
----- Original Message -----
From: "Larry Cahoon" <lejek@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, June 24, 2002 6:07 PM
Subject: FD 2002

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End of QRP-L Digest 2596
****
